

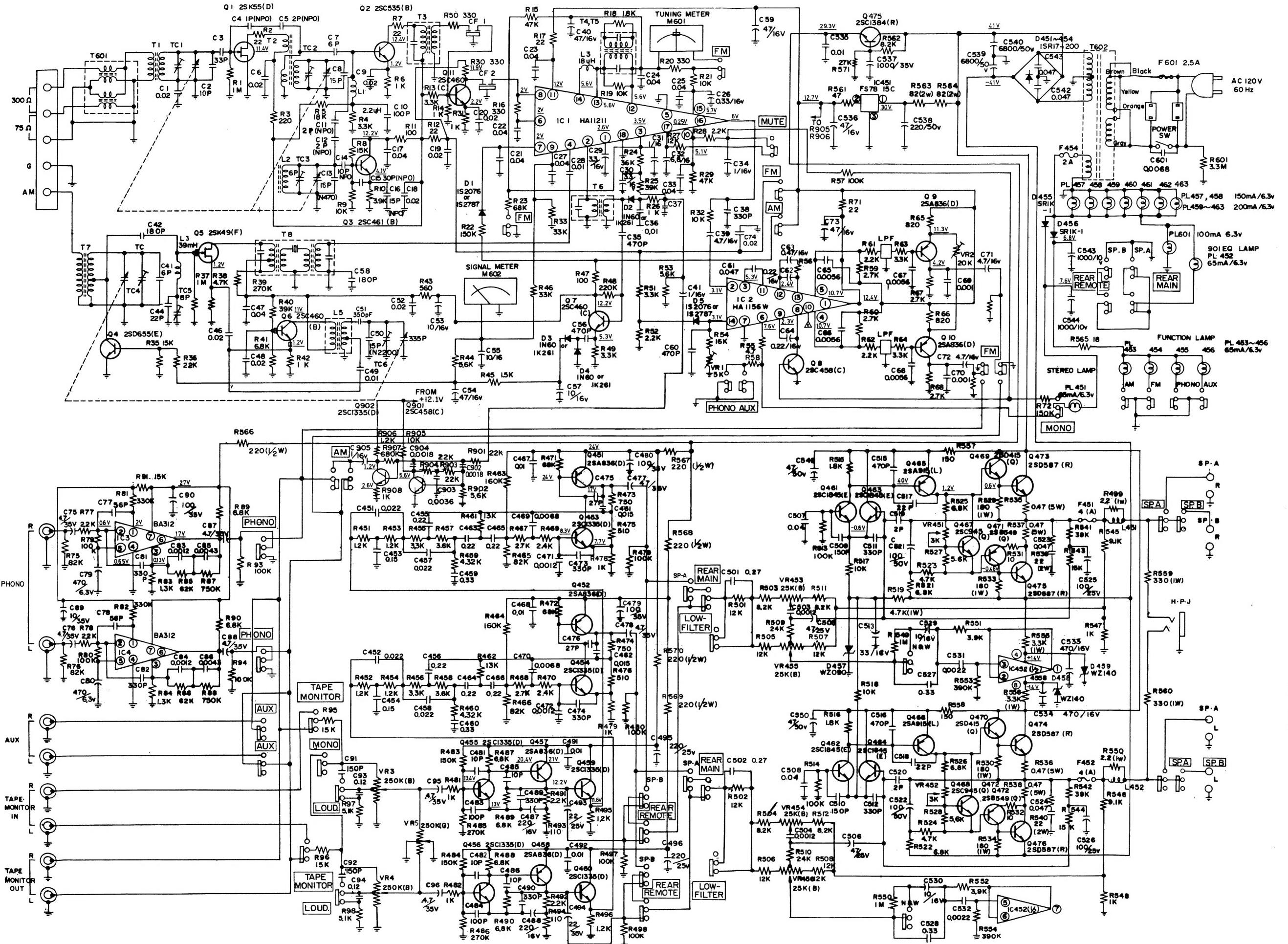
# **BOSE® Model 550**

## **AM/FM Stereo Receiver SCHEMATIC & PARTS LIST FINAL**

Symbol	SEMICONDUCTORS	Description	Part Number	Symbol	Description	Part Number
<b>TRANSISTORS</b>						
Q1	FET 2SK55(D)	109879	C4	1P(NPO) Ceramic	109930	
Q2	2SC535(B)	109880	C5,11,12	2P(NPO) Ceramic	109935	
Q3	2SC461(B)	109881	C7,43	6P(J) Ceramic	114077	
Q4	2SD655(E)	112300	C8	15P(N470) Ceramic	109934	
Q5	FET 2SK49(F)	112298	C10	100P(J) Ceramic	109939	
Q6	2SC460(B)	112241	C13	16P(N470) Ceramic	114072	
Q7,11	2SC460(C)	112138	C14	10P(NPO) Ceramic	109932	
Q8,901	2SC458(C)	109885	C15	30P(NPO) Ceramic	109937	
Q9,10,451,452,457,458	2SA836(D)	109887	C16	15P(NPO) Ceramic	109938	
Q453-456,459,460,902	2SC1335(D)	109888	C17,21-25,27,33,47,	0.047(YZ) Ceramic	114071	
Q461-464	2SC1845(E)	112284	C26	0.33/16V Electrolytic	114073	
Q465,466	2SA1915(L)	112285	C32	0.01(YB) Ceramic	113270	
Q467,468	2SC945(Q)	112288	C35	3.3/16V Electrolytic	113297	
Q469,470	2SD415(Q)	112286	C38	6.8/16V Electrolytic	114074	
Q471,472	2SB549(Q)	112287	C39	47OP(YB) Ceramic	113356	
Q473-476	2SD587(R)	112283	C41	33OP(J) Ceramic	113304	
Q477	2SC1384(R)	112289	C42,58	4.7/16V Electrolytic	113301	
I.C's			C44,517,518	47/16V Electrolytic	109962	
IC1	HA11211 (FM IF)	112114	C50	1/25V(LL) Electrolytic	112271	
IC2	HA1156W (MPX)	112294	C51	18OP(J) Ceramic	114076	
IC3,4	BA312 (PRE AMP)	112295	C53,55,57,529,530	22P(J) Ceramic	113310	
IC451	FS78 15C (Zenner IC)	112290	C56	15P(N2200) Ceramic	114078	
IC452	4558D (OP IC)	110369	C60	35OP(J) Polyester	190956	
DIODES			C62	10/16V Electrolytic	113303	
D1,5	1S2787	112301	C63,64	47OP(YB) Ceramic	113356	
D2,3,4,	1K261	112302	C65-68	47OP(J) Polyester	109945	
D451-454	1SR17-200	112291	C69,70	.047(M) Polyester	112222	
D455,456	WO-6B	109896	C71,72,75,76,87,88,95,96,477,478	.47/25V (LL) Electrolytic	114079	
D457	WZ090 (ZENNER)	112292	C79,80	.22/25V (LL) Electrolytic	114080	
D458,459	WZ140 (ZENNER)	112293	C81,82	.0056(YB) Ceramic	100397-7	
<b>CAPACITORS</b>						
<b>Tolerance Table</b>						
(G) = 2%	(J) = 5%	(K) = 10%	(M) = 20%	(LL) = Low Leakage	C83,84	.001(YB) Ceramic
VCl-5	Variable Capacitor	112361	C85,86	C89	4.7/35V (LL) Electrolytic	
C1,6,9,18,20,46,48,52,74	0.022(YZ) Ceramic	114069	C90	56P(J) Ceramic		
C2	10P(N470) Ceramic	109928	C91,92	470/6.3V Electrolytic		
C3	33P(J) Ceramic	113357	C93,94	33OP(J) Ceramic		
			C451,452,457,458,463-466	.0012(J) Polyester	113304	
			C453,454	.0043(J) Polyester	112274	
			C455,456	.0043(J) Polyester	112340	
			C459,460	.10/35V Electrolytic	114083	
			C461,462	150P(J) Ceramic	109969	
			C467,468,491,492,535	.12(M) Polyester	114084	
			C469,470	.022(J) Polyester	112342	
			C471,472	.022(J) Polyester	109972	
			C473,474,489,490,511,512	.15(J) Polyester	112197	
				.22(J) Polyester	112198	
				.33(J) Polyester	112199	
				.015(K) Polyester	114105	
				.01(YZ) Ceramic	109931	
				.0068(G) Polyester	112202	
				.0012(G) Polyester	112201	
				33OP(K) Ceramic	109944	

Symbol	Description	Part Number	Symbol	Description	Part Number
C475,476	27P(J) Ceramic	113280	R24	36K (J) Carbon	114086
C479,480	100/35V (LL) Ceramic	114106	R25,40,541,542	39K (J) Carbon	113320
C481,482,485,486	10PF(J) Ceramic	109964	R27,501,502,505-508	12K (J) Carbon	113346
C483,484	100PF(K) Ceramic	109939	R28,52,61,62,77,78,491,492	2.2K (J) Carbon	107170-222
C487,488	220/16V Electrolytic	109954	R33,46	33K (J) Carbon	113322
C493,494	22/35V (LL) Electrolytic	114107	R36,903,904	22K (J) Carbon	113341
C495,496	220/25V (LL) Electrolytic	114108	R38,523,524	4.7K (J) Carbon	113377
C501,502	.27(K) Polyester	112314	R39,485,486	270K (J) Carbon	114087
C503,504	.0012(K) Polyester	112312	R41,89,90,487-490,521,522,525,526	6.8K (J) Carbon	113289
C505,506	47/25V Electrolytic	114109	R43	560 (J) Carbon	113352
C507,508	.047(YZ) Ceramic	114071	R44,53,527,528,902	5.6K (J) Carbon	114088
C509,510	150PF(K) Ceramic	114110	R45	1.5K (J) Carbon	113321
C513	33/16V Electrolytic	113412	R48	220K (J) Carbon	113318
C515,516	470PF(K) Ceramic	114111	R54	16K (J) Carbon	114089
C519,520	2PF(D) Ceramic	114112	R55	4.7 (J) Carbon	114090
C521,522	100/50V Electrolytic	114113	R57,79,80,93,94,479,480,497,498	100K (J) Carbon	113281
C523,524,541,542	.047(M) Polyester	112222	R59,60,67,68	2.7K (J) Carbon	113340
C525,526	100/25V Electrolytic	114114	R65,66	820 (J) Carbon	113383
C527/528	.33(K) Polyester	112315	R75,76	82K (J) Carbon	113350
C531,532	.0022(K) Polyester	112313	R81,82	330K (J) Carbon	114091
C533,534	470/16V Electrolytic	113407	R83,84	1.3K (J) Carbon	114092
C537	1000/35V Electrolytic	114115	R85,86	62K (J) Carbon	113399
C538	220/50V Electrolytic	114116	R87,88	750K (J) Carbon	114093
C539,540	6800/50V Electrolytic	114117	R97,98	5.1K (J) Carbon	113375
C543,544	1000/16V Electrolytic	113364	R451-454	1.2K (G) Carbon	113386
C549,550	47/50V Electrolytic	114118	R455,456	3.3K (G) Carbon	113385
E601	.0068 Line By Pass	112363	R457,458	3.6K (G) Carbon	113388
C902,904	.0018(J) Polyester	109967	R459,460	4.32K (F) Metal Film	112203
C903	.0036(J) Polyester	114126	R461,462	13K (G) Carbon	113389
C905	1/25V (LL) Electrolytic	114127	R463,464	160K (G) Carbon	113391
			R465,466	82K (G) Carbon	113390
			R467,468	2.7K (G) Carbon	113392
			R469,470	2.4K (G) Carbon	113393
			R471,472	68K (G) Carbon	113394
			R473,474	750 (G) Carbon	113397
			R475,476	510 (G) Carbon	113396
			R477,478	1K (G) Carbon	113395
CHOKES, COILS, FILTERS, TRIMMERS			R493,494	110 (J) Carbon	114119
CF1,CF2	Ceramic Filter 10.7MS2 (GY)	112335	R495,496,906	1.2K (J) Carbon	113323
L1	Choke Coil 2.2 MH	112184	R499,500	2.2 (1W K) Metal Film	114120
L2	FM Osc Coil	112130	R503,504,511,512,562	8.2K (J) Carbon	113379
L3	Choke Coil 18uH (J)	112238	R509,510	24K (J) Carbon	113380
L4	Choke Coil 3.9 MH (K)	112338	R519	4.7K (1W K) Metal Oxide	112317
L5	AM Osc Coil	109907	R529,530,533,534	180 (1W J) Metal Oxide	112320
L451,452	Choke Coil 2uH	112141	R531,532	10 (J) Carbon	113351
LPF1,LPPF2	Low Pass Filter	112337	R535-538	.47 (5W J) Cement	112323
T1	FM Ant Coil	112128	R539,540	22 (2W K) Metal Oxide	112226
T2	FM RF Coil	112297	R545,546	9.1K (J) Carbon	114123
T3	FM IFT	112133	R553,554	390K (J) Carbon	113382
T4	FM IFT	112331	R555,556	3.3K (1W K) Metal Oxide	112319
T5	FM IFT	112332	R557,558	150 (J) Fuse Resistor	112318
T6	AM IFT	112334	R559,560	330 (1W J) Metal Oxide	112321
T7	Ber Ant	112327	R561	4.7 (1/2W J) Carbon	113251
T8	AM IFT	112333	R563,564	82 (2W J) Metal Oxide	112322
T601	Burn Coil	109860	R565	18 (J) Carbon	114122
			R566-570	220 (J) Carbon	113256
TC3	Trimmer Cap 6P	109910	R571	27K (J) Carbon	113286
TC5	Trimmer Cap 8P	112339	R601	3.3M (1/2W K) Solid	110888
			R901	22K (J) Carbon	113341
			R907	680K (J) Carbon	114101
RESISTORS					
Tolerance Table					
(G) = 2%					
(J) = 5%					
(K) = 10%					
(M) = 20%					
Unless otherwise stated, all resistors are 1/4 watt.					
Semi-Fixed			M601	Tuning Meter	112173
			M602	Signal Meter	112172
VR1	5K	112343		LAMPS	
VR2	20K	112247		65mA/6.3V	112126
VR451,452	3K	112324	PL451-456	150mA/6.3V	112296
Potentiometers			PL457,458	200mA/6.3V	109856
VR3,4	250K(B) Volume	112329	PL459-463	65mA/6.3V	112306
VR5	250K(G) Volume	112330	PL601		
VR453-456	25K(B) Volume	112310		SWITCHES	
Fixed			SW1	Push Switch	112326
R1,37,549,550	1M (J) Carbon	113282	SW2	Power Switch	112303
R2,7,12,17,58,71	22 (J) Carbon	113284	SW451,452	Slide Switch	112176
R3	220 (J) Carbon	113349	SW453	Push Switch	112308
R4,13,49,51,63,64	3.3K (J) Carbon	107157-332		8P Jack	112328
R5	18K (J) Carbon	113367		Headphone Jack	109870
R6,14,26,31,42,56,481,482,547,	1K (J) Carbon	113238		Antenna Terminal	112362
R48,908				F Type Terminal	114125
R8,35,91,95,96,543,544,	15K (J) Carbon	113347		Output Terminal	112309
R9,19,21,32,517,518,905	10K (J) Carbon	113288		AC Cord	112304
R10,551,552	3.9K (J) Carbon	113354		AC Outlet	109866
R11,47	100 (J) Carbon	113285		Fuse Holder	112159
R15,29	47K (J) Carbon	113343		Lamp Holder	112165
R16,20,30,50	330 (J) Carbon	113290		PCB Holder	112325
R18,515,516	1.8K (J) Carbon	113345		Ferrite Bead	109918
R22,72,483,484	150K (J) Carbon	113283		Shield Plate (A)	114094
R23,513,514	68K (J) Carbon	114085		Shield Plate (B)	109912
MISCELLANEOUS					
METERS					
TUNING METER					
SIGNAL METER					

# 110 V SCHEMATIC



901 EQ  
REAR MAIN

901 EQ  
REAR REMOTE

AUX

PHONO

AM

MONITOR

MUTING

LOUDNESS

DEEP BASS

SPEAKER

NARROW & WIDE

POWER